

Flight Scientist Report  
Friday 03/08/2020 ACTIVATE RF18

Flight Type: Statistical Survey Flight – Clouds

Flight Route: OXANA – southeast point

Special Notes: followed same path as morning flight. Forecasting data suggested it would be clear in afternoon but there were still clouds along the flight track. The clouds were sparse along the flight track but the execution of the profiles went very well.

**King Air**

- Decent flight except RSP was unavailable

Instruments:

RSP down

**Falcon**

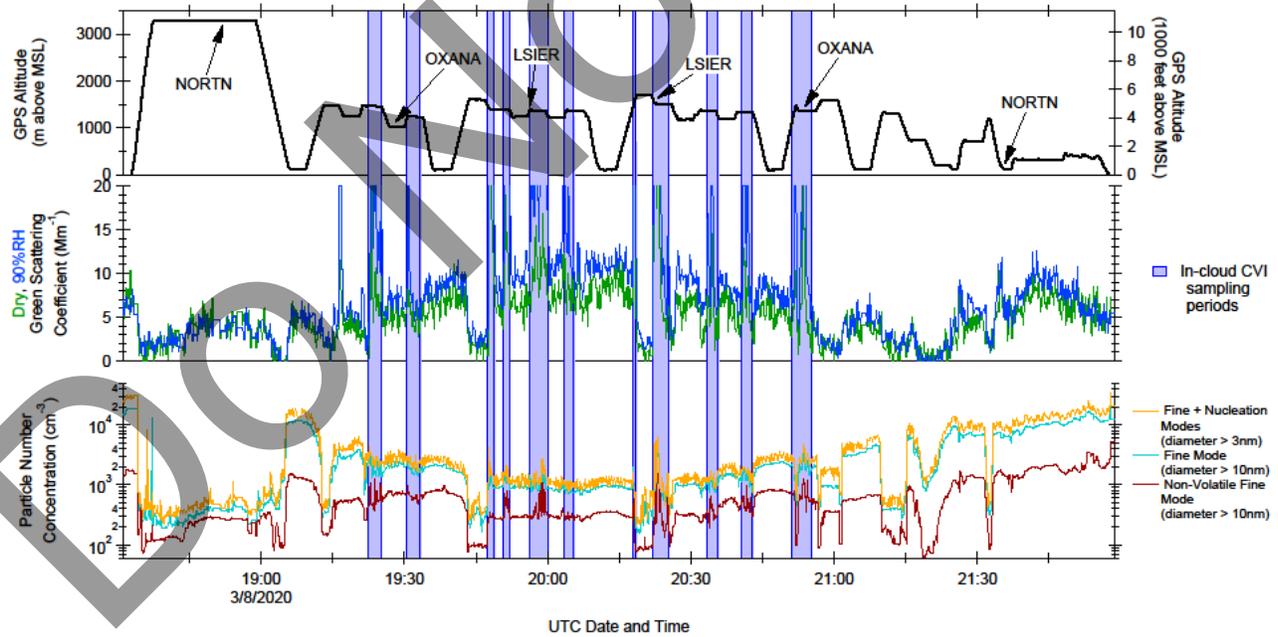
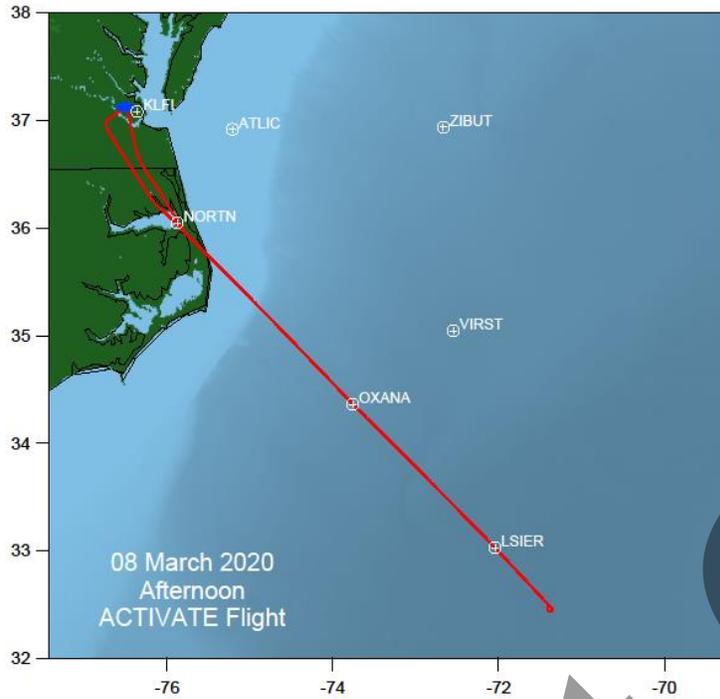
- 3 cloudy ensembles and 1 clear one at the end.

Instruments:

Fine

Do Not Cite!

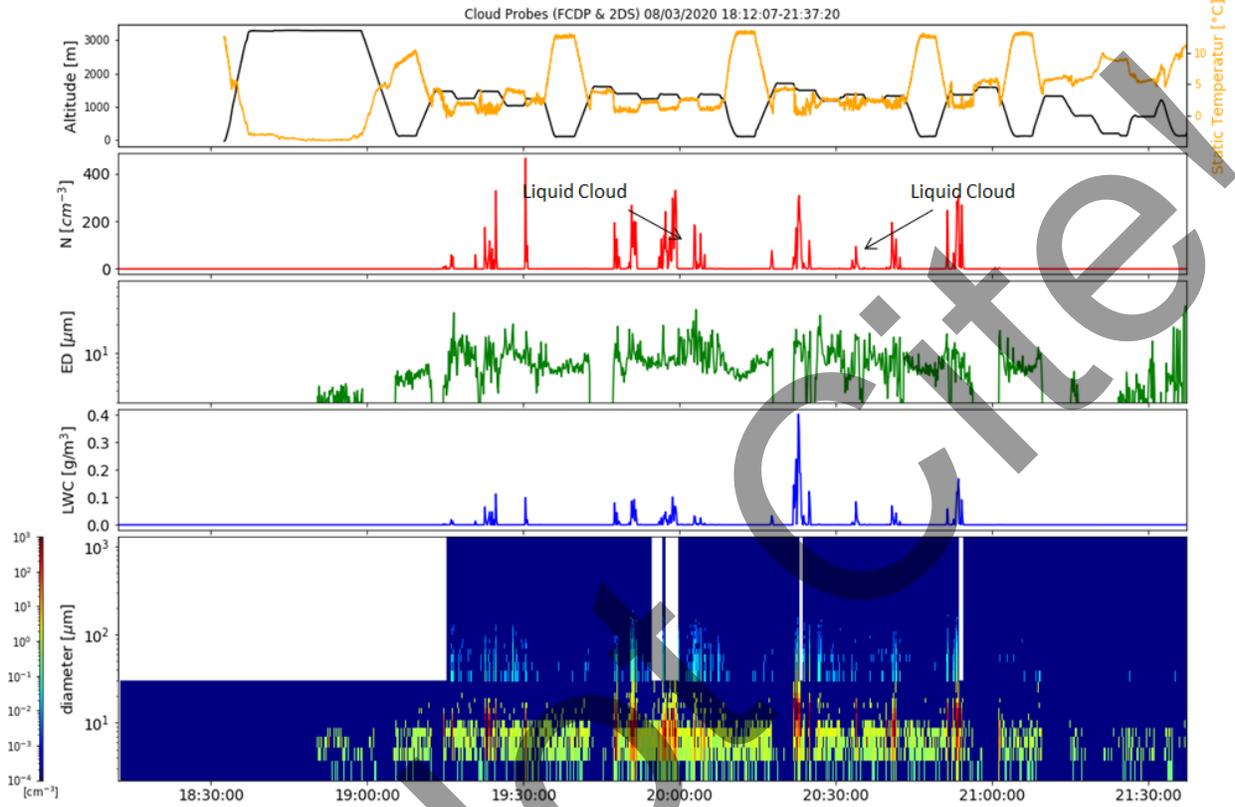
Rich Moore Quicklook Images:



# Quicklook ACTIVATE Cloud Probes (FCDP & 2DS)

preliminary data, only for quicklook use

Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbie

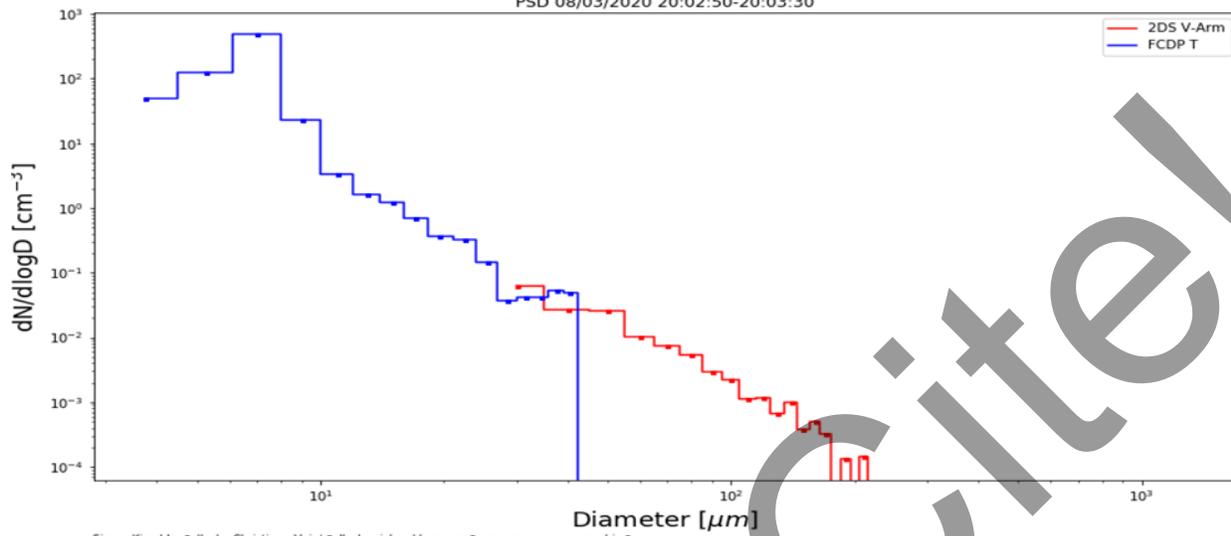


# PSD ACTIVATE

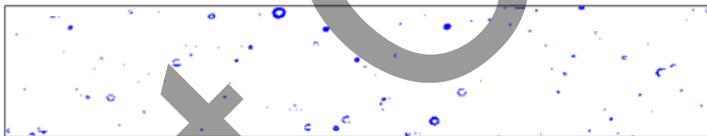
preliminary data, only for quicklook use  
Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbie



PSD 08/03/2020 20:02:50-20:03:30



Liquid Cloud: 20:03:07



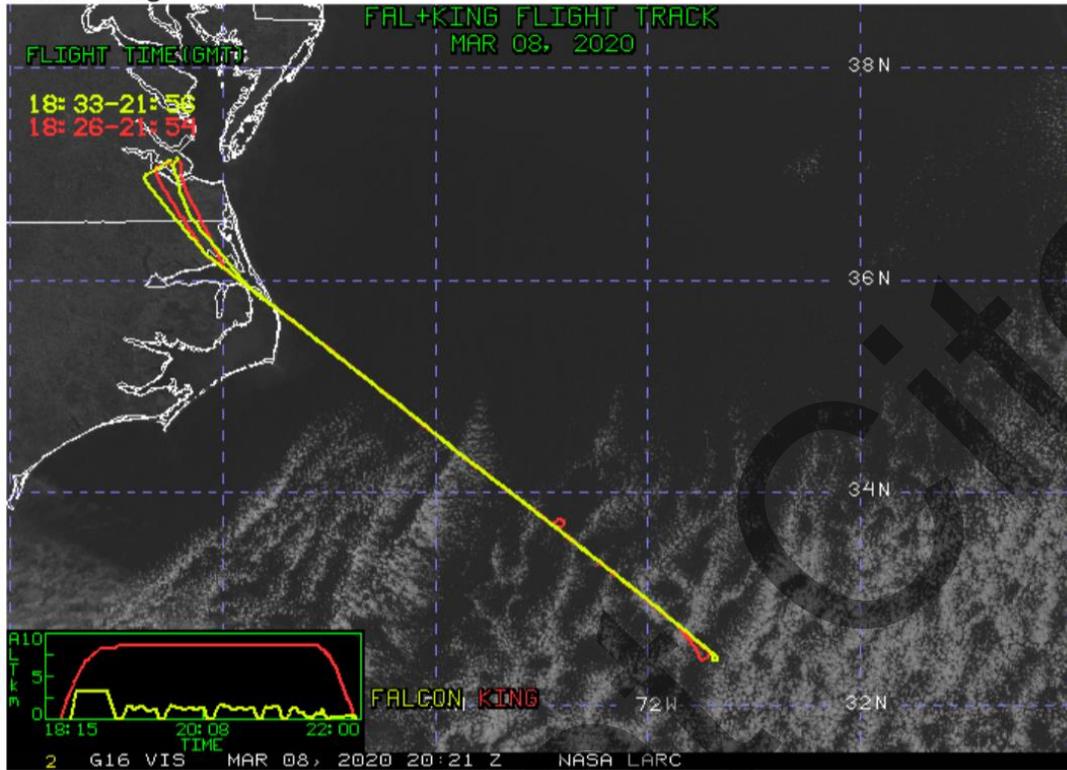
Liquid Cloud: 20:35:33



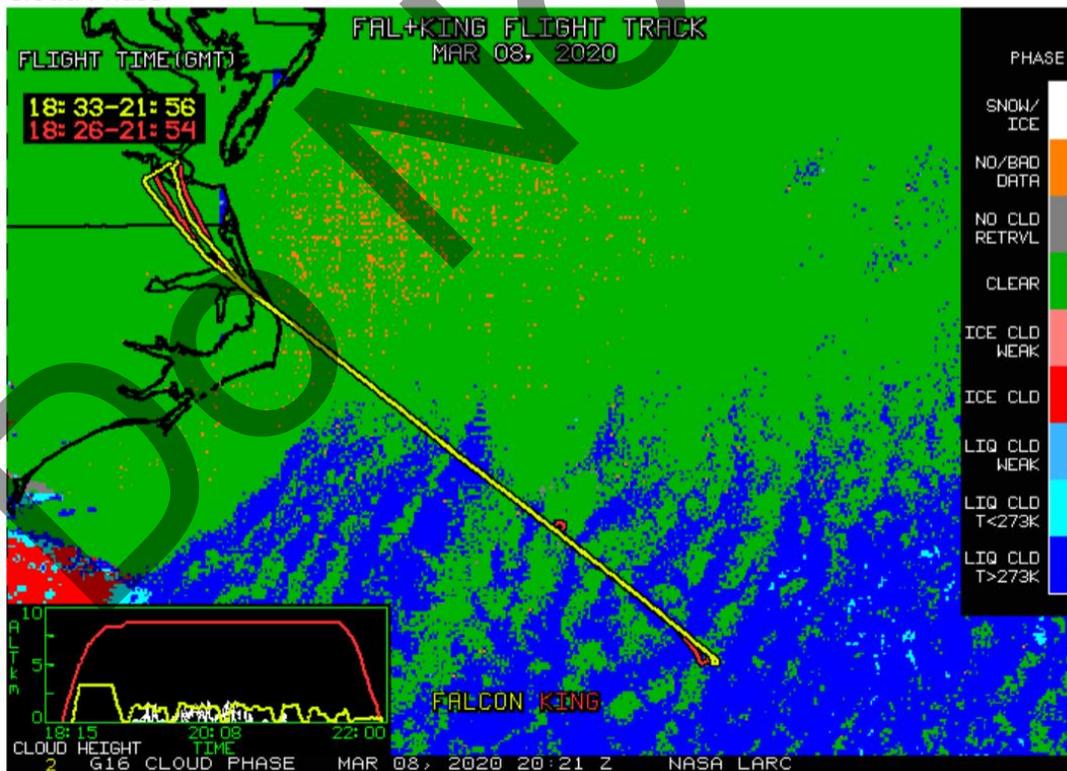
Do Not Cite!

NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 18, 20:21 UTC Mar 08, 2020  
(near middle of flight)

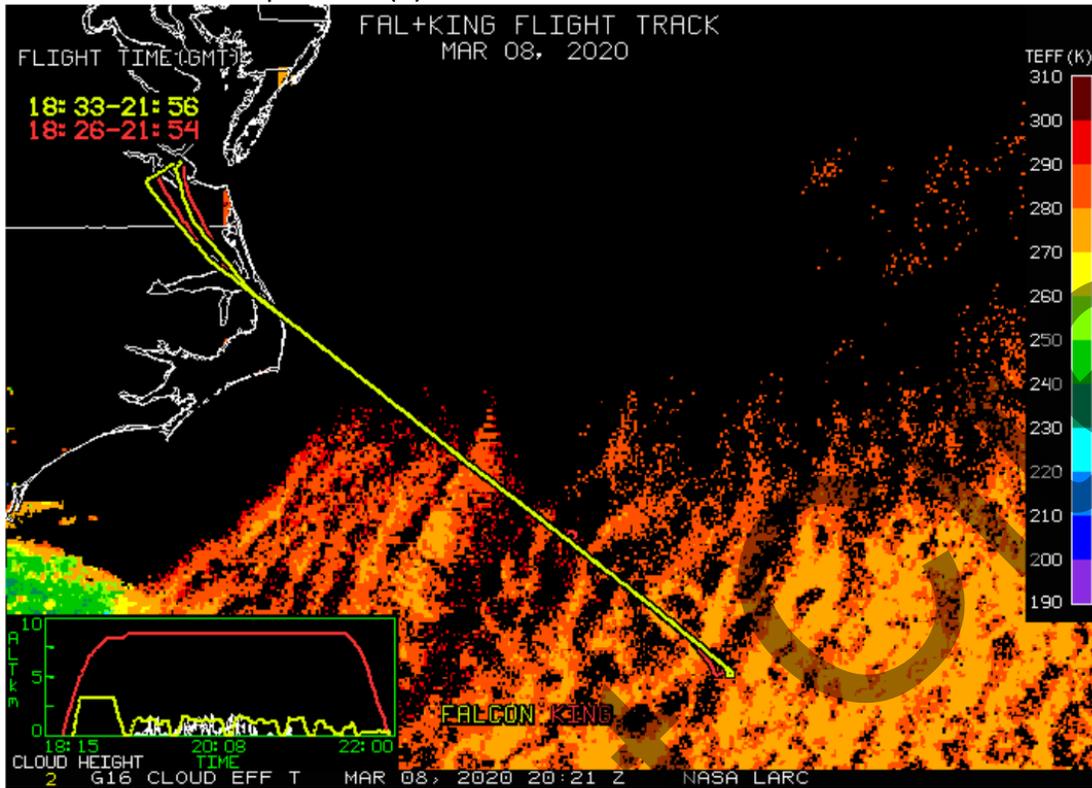
Visible Image



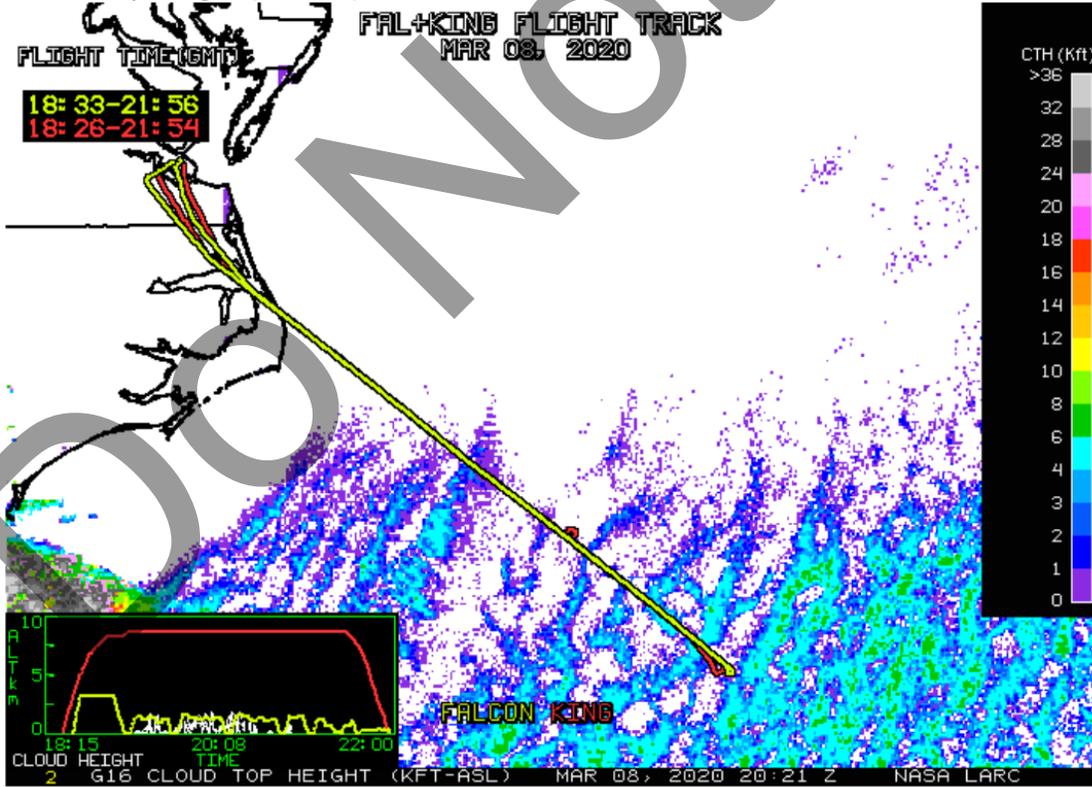
Cloud Phase



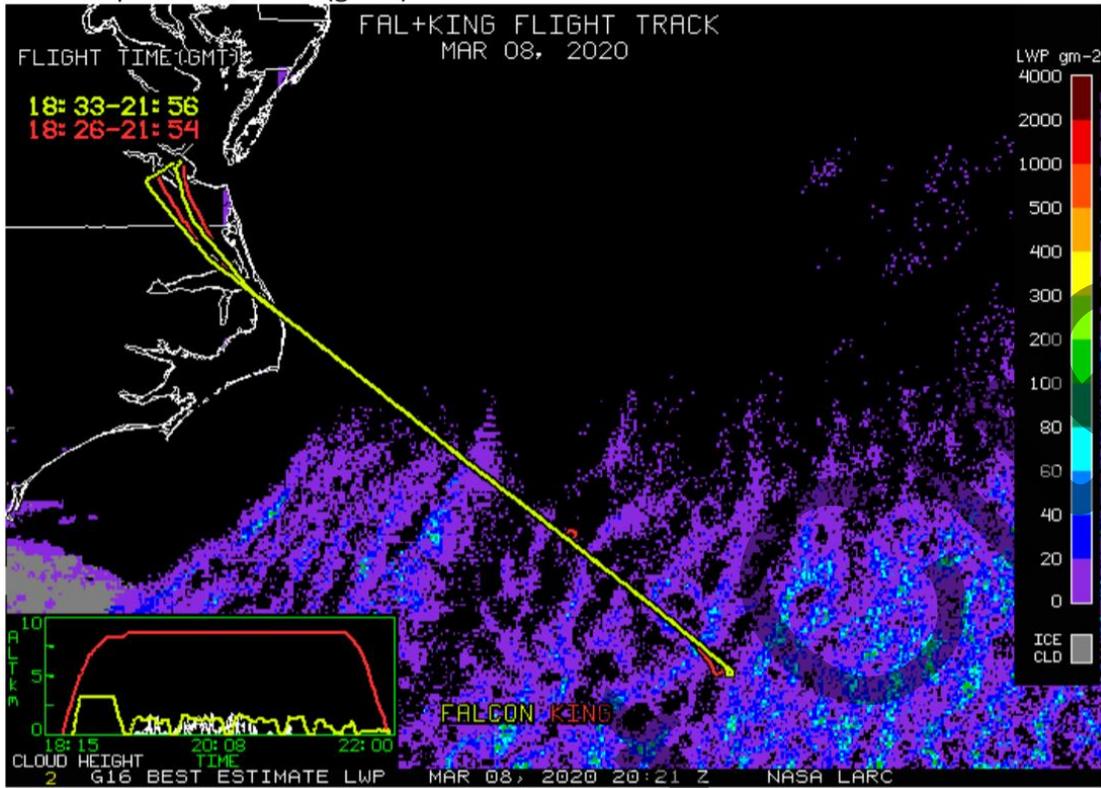
### Cloud Effective Temperature (K)



### Cloud-Top Height (Kft-ASL)



Cloud Liquid Water Path (gm-2)



Cloud Droplet Number Concentration (cm-3)

